

IN THE CLAIMS

Please amend the claims as follows:

1. (Amended) An adaptive slope compensator for compensating [the] a current mode power converter comprising:

a programmable current source which generates a programmable current;

a grounded capacitor [associate] associated with said programmable current source to generate [the] a slope signal;

a switching diode [to synchronized] for synchronizing said slope signal with [the] a switching signal of said power converter,

wherein said slope signal is reset to zero in response to [the] an off state of said switching signal;

an input stage of said programmable current source having an input resistor coupled to [the] a voltage feedback loop of said power converter to [effect] affect the magnitude of said programmable current and said slope signal;

wherein the slew rate of said slope signal is responsive to the signal of said voltage feedback loop during [the] an on [time] state of said switching signal; [and]

said slew rate and magnitude of said slope signal are inversely proportional to [the] a change of input voltage of said power converter and are directly proportional to [the] a change of output power of said power converter; and

an output stage of said programmable current source [having] has an output diode and an output resistor [in series] coupled in series to [the] a current feedback loop of said power converter to achieve the slope compensation.

2. (Amended) The [Adaptive] adaptive slope compensator in accordance with claim 1, wherein said programmable current source includes [a] said grounded capacitor at its output terminal to generate the waveform of said slope signal and provide a time constant for the adjustment of said slew rate.

3. (Amended) The [Adaptive] adaptive slope compensator in accordance with claim 1, wherein [the] said output stage of said programmable current source has [a] said switching diode [connect] connected to said switching signal therein for synchronizing said slope signal.

4. (Amended) The [Adaptive] adaptive slope compensator in accordance with claim 1, wherein said programmable current source [comprising] includes:

a pnp transistor for [the] current control;

an emitter resistor connected between the emitter of said pnp transistor and a constant voltage source for [the] current setting;

a base resistor connected between the base of said pnp transistor and said constant voltage source for providing [the] bias to said pnp transistor.

[a] said input resistor operatively connected to the base of said pnp transistor and said voltage feedback loop for programming the magnitude of said programmable current;

wherein said programmable current is linearly responsive to said signal of said voltage feedback loop; and

a filter capacitor positioned [in] at the base of said pnp transistor to eliminate [the] switching noise of said power converter.

5. (Amended) The [Adaptive] adaptive slope compensator in accordance with claim 1, wherein the magnitude of said signal of said voltage feedback loop is [direct proportion] directly proportional to the change of input voltage and is [inverse proportion] inversely proportional to the change of output power.

REMARKS

Reconsideration and allowance of the subject application are respectfully requested. Claims 1-5 remain pending, claim 1 being an independent claim.